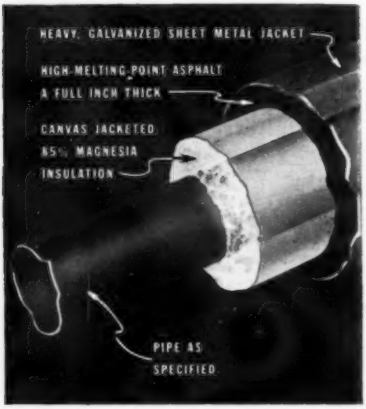
ASBESTOS

JUNE - 1947

Sectional view of Durant Insulated Pipe, showing construction features. Pipe, insulation and protection are factory-fabricated into units.



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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
17th FLOOR INQUIRER BUILDING
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FROM THE OTHER SIDE OF THE STREET

When we come to the office each morning we walk half a dozen squares and, habit being what it is, we generally walk on the same side of the street, every morning.

A week or so ago, on a rather chilly morning we decided to walk on the other side of the street—the sunny side.

It was rather amusing, and interesting, to find that there were a lot of things—signs, names of firms occupying the upper stories of buildings,—which we had never noticed before; in fact could not see them when we were walking practically under them.

It's well once in a while to walk "on the other side of the street"—to get away from our problems and view them at a distance. It gives us a new perspective; we get new ideas, we see things from the other fellow's point of view.

Sometimes when we see one of our problems "from the other side of the street" the solution instinctively comes to us—our minds "click" as it were, and the answer is there—why we could not see it before we cannot imagine.

Habit serves us well in mechanical routine; it speeds up our work, but it is also likely to put us in a rut.

We have to "walk up the other side of the street" and see what it looks like that distance away, or we may miss an opportunity.

ODD REASONS FOR USING SIDING

It would be interesting to collect the reasons for the use of asbestos-cement siding on various types of buildings, especially *odd* reasons.

We suppose that improvement in appearance of the building, protection against fire, and modernization of the building constitute 90% of the reasons for siding installations. But the other 10% are very likely odd, extraordinary, queer or at least interesting.

For instance one house-owner ordered siding because it was impossible at the time (1945) to have the wooden clapboard painted. The siding not only eliminated the paint problem, but insulated the building and, to the owner's

daylight, cut down his oil bill to an undreamed of extent.

The queerest reason or set of reasons we have so far encountered is described in the J-M Specialist (Spring 1947 issue). The owners of a flour mill found they could not properly fumigate for weevils because the wooden siding of the building was in such condition that it failed to keep the fumes of the gases used for fumigation inside the building, and that meant that it did not properly kill the weevils. Incidentally the gas which escaped was such a menace to human beings that the mill had to issue gas masks to everyone in the neighborhood when the fumigation was made. Asbestos-cement Siding in the form of J-M's Flexboard, solved the problem, both inside and outside the mill.

Readers are urged to send us other "queer" reasons for re-siding with asbestos-cement products.

THE EMPIC NEWS

Asbestos "made" the Empic News Page, issue of May 1947, its Science Chat being devoted to that subject.

To explain to those readers not familiar with The Empic News Page, the Electrical Manufacturers Public Information Center issues each month a page (printed like a page in a newspaper) containing short items concerning news and developments in the electrical field. This is sent to 5,000 daily and weekly newspaper editors, and 5,000 editors of magazines, house organs, including radio commentators, free lance writers, etc., who may use any or all of the items at will and random, as fill-ins and whatnot. We have on occasion used items from the page in "ASBESTOS".

It is quite gratifying therefore to have over half a column of the page devoted to Asbestos, telling of the use of asbestos insulation on electrical wiring, and picturing a braiding machine covering an inch thick cable with asbestos yarn.

Quite likely this article in The Empic News will be picked up by numerous editors of trade or machinery journals, as an interesting fill-in, and the resulting publicity for asbestos, will be most welcome.

ASBESTOS SHEET PACKING

Between Bronze Expansion Plates Approved in Bridge Design

By M. E. Fischer[1]

Recently an investigation was made by the Division of Highways of the California State Department of Public Works on the serviceability of sheet asbestos packing placed between expansion plates. After aproximately ten years service, the packing was removed from one corner of one bridge, and based on the condition of the packing removed, it was concluded that when properly installed, packing of this type will provide a satisfactory expansion.

For years it had been the practice in bridge design to use sliding plates under girder seats for expansion in bridges of relatively short span and sometimes this type of joint was used on steel truss spans. Such joints were used chiefly because of their cheapness in construction and also because the loads were relatively light. But as time went on these plates tended to "freeze" and expansion movements could no longer take place without something being damaged. Usually this was the corner or edge of the abutment or bridge seat in an area just under the bottom of the bearing plate. Nothing was done about these breaks as they seemed to be of a minor nature and once the concrete broke movements could take place again without much additional breakage. However, in the past few years, the ever increasing weight and amount of truck traffic on the highways created such additional loads on the structure that the weakened corners of the abutments soon became worse and expensive repairs were then mandatory.

In 1930 the Materials and Research Laboratory of the State Division of Highways made studies on the use of different combinations of hard and soft bronze plates and the merits of flake graphite and asbestos packing used for lubrication. The plates were loaded by a vertical load of 700 pounds per square inch and moved at the rate of nineteen movements per minute.

[1] Associate Bridge Engineer, Bridge Department, Division of Highways, California State Department of Public Works.

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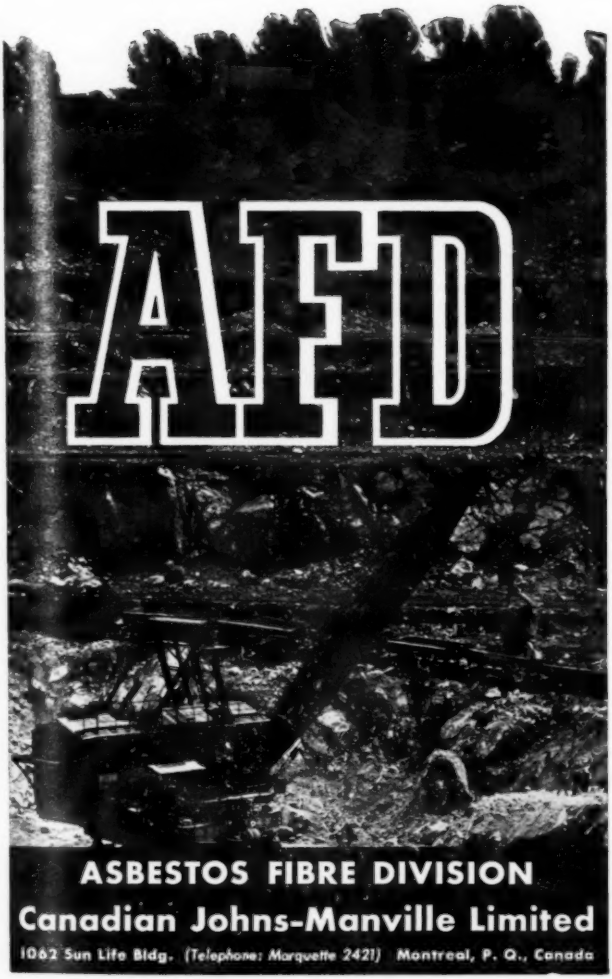
Two hard bronze plates conforming to S. A. F. Specification #62 gave a very poor performance when run dry. Two softer bronze plates of S. A. E. #64 gave a better performance for about 2,000 to 2,500 movements but during that time abrasion took place equally between the plates, and a brownish powder formed which gradually worked out between them. After about 2,500 movements a slight chatter developed but it was mild compared to the distress encountered when other metals were used.

Most encouraging of the tests made was with the use of an asbestos packing material placed between two concrete blocks. Such a joint ran smoothly requiring almost a constant force to move the plates. After 33,700 movements the 1/16 inch packing wore out and the concrete blocks came in contact with each other.

As a result of these experiments, the Laboratory recomended that, in future bridges, expansion plates be made up using the chemical composition conforming substantially to Specification #64 of the Society of Automotive Engineers but separated by a single layer of 1/16 inch asbestos sheet packing.

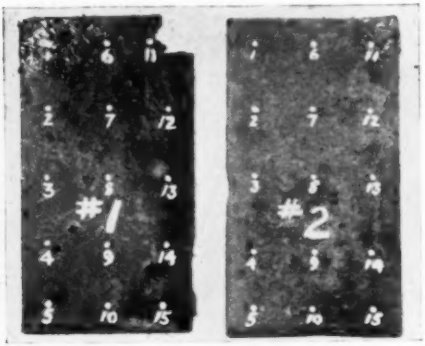
The Standard specifications dated April 1945 of the State of California, Department of Public works, Division of Highways now calls for the use of Bronze Expansion Plates conforming to the requirements of the Specifications for Bronze Castings for Turntable and Movable Bridges and for Bearing and Expansion Plates of Fixed Bridges (tentative) of the American Society for Testing Materials, Serial designation B-22-42T, Class C with subsequent amendments. The plates are machined to a true plane and if practicable shall be milled at right angles to one another.

The packing material called for is the same as that used in the test runs. It is described as being essentially composed of asbestos fibres bound together with a cementing medium rendering it tough and pliable and having one side coated with graphite. The deformation of the packing under a load of 10,000 psi shall not be more than one-hundredth inch (0.01") and the loss on ignition shall not be


AFD
ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
1062 Sun Life Bldg. (Telephone: Marquette 2421) Montreal, P. Q., Canada

more than twenty five percent (25%). When tested between planed bronze plates under a load of seven hundred (700) psi, the packing shall show a static coefficient less than four tenths (0.4) after one hundred (100) one-quarter inch (¼") movements.

Such packing has now been used successfully for a period of at least ten years and in various ways. In addition to placing it between bronze plates, it has been used between siding concrete surfaces and between steel beams and the concrete seats of bridges up to 55' span. While its use has been confined to a rather short period, indications are that results will be satisfactory.



The sheets of Packing Removed from St. Helena Creek Bridge after eleven years of Service

As previously stated, an examination was made on the serviceability of the asbestos packing. The Materials and Research Laboratory and the Bridge Department Maintenance and Research Section investigated the condition of the expansion joints in six structures each approximately ten years old and having S. A. E. #64 leaded bronze plates and 1/16" asbestos packing between them. The packing was of the type previously described.

The expansion provisions on all of these structures were found to be operating perfectly. There was no evidence of the concrete spalling or cracking under the plates and in some cases where the packing was slightly oversize

when installed, the protruding portions showed no signs of deterioration. One corner of a reinforced concrete slab structure built in 1934 and consisting of six 31′ spans on a 55° skew was jacked up in order to remove a portion of the packing for further examination. An opportunity was afforded to examine two sets of bronze plates at the same time. The plates were found to be in excellent condition and there were no signs of any abrasion having take place since they had not contacted each other.

In one set of plates the packing had adhered to the upper plate and its removal required the use of a chisel pointed tool. The load had not been uniformly distributed

Thickness of asbestos packing removed from St. Helena Creek Bridge #14-16 after eleven years of service. (Original thickness 0.0625").

Point See Photograph	Thickness Inches	
	Spec. #1	Spec. #2
1	.057	.062
2	.062	.060
3	.061	.060
4	.062	.061
5	.060	.060
6	.051	.060
7	.061	.060
8	.059	.061
9	.058	.059
10	.059	.061
11	.029	.059
12	.056	.060
13	.055	.060
14	.057	.060
15	.057	.059
Average	.056	.060

This investigation was carried out under the direction of H. D. Stover, Bridge Maintenance Engineer, and T. E. Stanton, Materials and Research Engineer, of the State Department of Public Works, Division of Highways, of California.

and most of the wear occurred on an end and along one edge of the packing. One corner had worn thin and had torn loose from the sheet. The sheet with the torn corner is shown in the photograph.

The sheet of packing removed from the second set of plates had adhered to the bottom plate. It indicated a very uniform distribution of load and except at one point (Specimen #2, Point 11) showed practically no abrasion.

Thickness measurements were made at fifteen points and the results of these measurements are shown in the accompanying table. It will be noted that packing Specimen No. 1 has decreased an average of four percent (4%) below its orginal thickness of 0.0625".

There was no evidence of any tendency for the packing to work from between the plates nor was there evidence of deterioration other than the relatively small amount of abrasion noted above. The abraded areas presented a very smooth glassy appearance.

Editor's Note: Consideration is now being given to the use of the packing between plain steel plates in order to cut down cost thru the elimination of expensive leaded bronze plates and castings.

ASBESTOS TOOTHBRUSH

Purely by accident we recently ran across an odd suggestion for the use of asbestos cloth.

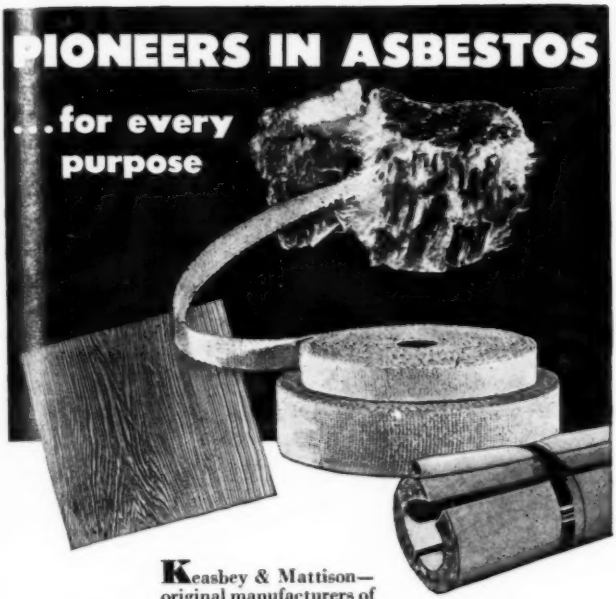
On September 24, 1929, Walter E. Knapp, of Lowell, Mass., was granted two patents, Nos. 1,729,167 and 1,729,168, on a toothbrush in which the "tooth-engaging portion" is formed of asbestos cloth.

The asbestos cloth is folded about a core piece which can be removed from the handle. The principal object of the invention was to produce a toothbrush which could be maintained in a sanitary condition, and it is naively pointed out that the brush may be purified by fire or by boiling water.

Whether such a brush has ever been actually manufactured and marketed we do not know—it is just one of those oddities which are constantly coming to our attention.

PIONEERS IN ASBESTOS

...for every purpose



Keasbey & Mattison—original manufacturers of asbestos-cement roofing shingles in this country—produce a complete line of asbestos building materials: Siding and Roofing Shingles • Wallboards • Corrugated and Flat Lumber • Acoustical material.

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And for the efficient conveyance of water, we manufacture "Century" Asbestos-Cement Pipe.

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NEW G-E ROCKET MOTOR STATIC TEST STATION USES ASBESTOS[1]

The application of asbestos products is aiding the rocket motor research program in the new General Electric rocket motor static test station, located near Schenectady. The test station is the first of its kind and has been in operation for over a year, contributing invaluable data for basic motor design and fuel development.

Attached to the wall of the motor room above the observation ports, a totally-enclosed steel box contains a camera which photographs the rocket exhaust during firing. In designing the camera box, engineers required a gasket material which was fireproof and waterproof, would withstand extreme pressure waves, and absorb and dampen vibrations. Asbestos gaskets were therefore decided upon.

For the window set in the front of the box, two 1/8 inch asbestos gaskets were applied, one on each side of the glass. Also, a tight seal was required between the camera box and the platform when bolted down. Here two 1/16th inch gaskets were used. One was cemented, with non-inflammable cement, to the platform and the other to the bottom edge of the box, forming a tight 1/8th inch asbestos gasket. With these seals the camera box was protected from fire that might result from burning oxygen and alcohol and against heavy pressure waves and vibrations developed during the testing of the rocket motor.

To protect the solenoid shutoff valves on the fuel and cooling lines behind the rocket motor test stand, 3/4 inch standard asbestos board was placed between the motor and the valves. Thus should the rocket motor under test explode or catch fire, the shutoff valves would be protected and the fuel supply to the rocket motor could be instantly cut off.

[1]Information in this article supplied thru the courtesy of the Apparatus News Bureau, General Electric Company.

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LARGE MILK BOTTLE PRODUCER USES ASBESTOS-CEMENT PRODUCTS

The aerial view of the Thatcher Manufacturing Company's plant at Streator, Ill., as shown below, is a charming one, especially so to readers of "ASBESTOS", because it shows a large expanse of asbestos-cement roof.

The Thatcher Company is a glass manufacturer, specializing in glass bottles, particularly *milk bottles*. It is in fact one of the largest manufacturers, of milk bottles, if not the largest, in the world.

Aerial view of Thatcher Plant, showing large expanse of Asbestos-Cement Corrugated Roof.

This view is of their plant at Streator, Ill., where 1750 squares of Asbestos-Cement Corrugated Roofing and Siding, of Ruberoid make, has recently been installed by Asbestos Erectors, Inc., Bound Brook, N. J. Gillmore-Carmichael-Olsen Company of Cleveland, were the general contractors.

Asbestos Erectors has also made large installations of Corrugated Asbestos-Cement on Thatcher buildings at Elmira and Olean, N. Y.

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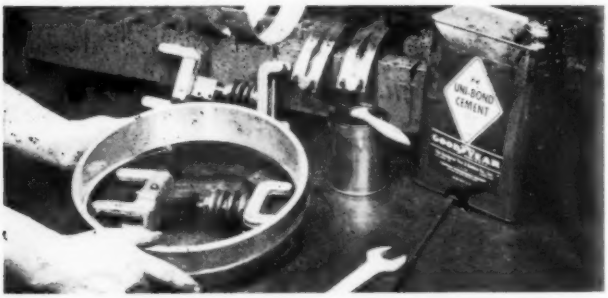
UNI-BOND PROCESS FOR RELINING BRAKES

The Uni-Bond process for relining brakes is a new, and claimed to be more efficient, means of relining brakes for motor vehicles, recently announced by the Goodyear Tire & Rubber Company.

The process binds the lining to the brake shoe by use of Uni-Bond cement, replacing the old method of riveting. This makes possible the exposing of a larger contact area of lining to the brake drum, resulting in better brake performance.

By eliminating rivets, lining applied by the Uni-Bond method may be worn completely down to the shoe, rather than only to the rivet heads as was formerly the case, insuring much longer brake lining life.



Spreader Device and Ring used to Equal Pressure upon Entire Lining of Brake Shoe.

An additional advantage is the fact that this process prevents brake drum scoring, thereby saving expense of resurfacing drums. The reason for this is that riveted lining necessitates counter-sinking of rivet heads, so that the small indentations around the heads gradually fill with small particles and abrasive material ultimately responsible for scoring of drums.

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Tests conducted by Goodyear brake lining technicians indicate that bonding efficiency of Uni-Bond is approximately six to nine times greater than that of rivets. One gallon of Uni-Bond is sufficient for lining 1200 shoes, while costing much less than rivets for an equal number of installations.

The Uni-Bond process begins with burnishing of the brake shoes, after which shoes and linings are painted with Uni-Bond cement. Allowed to dry for 20 minutes at room temperature, lining and shoes are then forced together by pressure applied with a specially designed Goodyear ring and spreader. (See photograph). The device resulted from a suggestion by Paul E. Kenyon, of Goodyear's brake lining and battery sales staff, who received a $1500 award from the company for his idea.

The final step consists in curing the cement at a specified temperature by placing linings and shoes in a Goodyear precision brake lining oven. Goodyear claims that relining of brakes by this method approximately doubles the life of the brake lining and insures a better performance.

• • • —

The first Chicago post-war Home Show recently held was attended by 110,000 persons, and convinced sponsors and exhibitors that such a Show was a real service to potential home-owners. One hundred and twenty firms, associated with home construction and supply, made up the show. A full size $10,000 home was given away.

• • • —

The International Trade Association was organized early in 1947 with headquarters in the Munsey Building, Washington 4, D. C., for "down to the earth, common sense trade development for the man who wants to buy and the man who wants to sell, anywhere on this earth." H. Fred Willkie is Chairman. Manufacturers, export-import houses and service companies wishing to expand their overseas trade are invited to correspond with the ITA.

• • • —

If you can't win, make the one ahead break the record.

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FACTORIES: Emeryville, San Francisco, Redwood City, Calif.

PROTECTION AGAINST FROST

An article in Engineering News Record[1] (May 15th issue) describes a rather unique use of asbestos felt.

The article is titled "Asbestos-Felt Blanket Protects Thin Concrete Dam from Frost" (which, incidentally, publicizes asbestos.) A brief of the article at its beginning reads:

Surface of multiple arches of Florence Lake Dam in southern California after 20 years of severe exposure at El. 7,300 have been coated with an asbestos-felt application, selected as the best of many tested which is expected to keep the concrete surfaces dry and hence to prevent frost damage to the structure in the future.

The Dam consists of 58 arches spanning a granite gorge at the upper end of a chain of hydro-electro plants.

The asbestos felt used is described as a 30 lb. asphalt saturated asbestos felt.

The article is well illustrated one of the illustrations showing the placing of the asbestos-felt layer.

[1] Published at 330 W. 42nd St., New York City.

APRIL BUILDING CONTRACTS DECLINE

Construction contracts awarded in the thirty-seven states east of the Rocky Mountains in April dropped 18 per cent below the volume reported for the corresponding month of last year, as reported by F. W. Dodge Corporation.

A total contract volume of $602,338,000 in April was reported, a gain of less than 1 per cent over the March volume.

Thirty-two thousand dwelling units are to be provided under the April residential contracts as compared with 51,000 called for in contracts let during April of last year, and 35,000 in March of this year.

Nonresidential contract volume in April totaled $184,317,000, and represented a decline of 4 per cent from March's total and 22 per cent from that of April 1946.

The downward trend in April was checked by an increased volume of heavy engineering works. The total for this type of construction was $161,353,000 against $121,971,000 in March and $128,139,000 in April 1946.

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BRIEFS

¶ Johns-Manville Corporation is working out arrangements for operations in the line of floor tile and asbestos-cement in three places in South America and two operations in France. From reports which reach us from various sources, floor tile is becoming an increasingly important item in the list of asbestos products. Shortage of the grades of asbestos fibres used in its manufacture is apparently the only deterring factor.

¶ How did the popular and long used 85% Magnesia Insulation get its name? One manufacturer tells it as follows: In 1887 the U. S. Navy began using it and when ordering specified that the insulation *must* contain 85% *Magnesia*. The phrase afterward became a standard trade name.

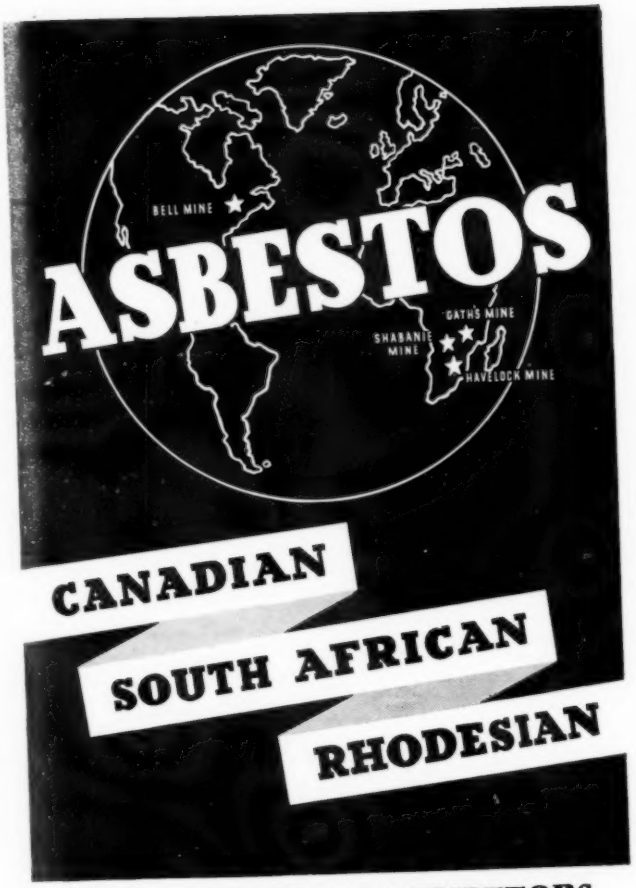
¶ Amaspro Asbestos Fenderseal is a coating for the underside of automobile fenders. Its manufacturers claim that it is acid and fume proof, will not soften and run under extreme heat conditions and will not become brittle and crack under cold extremes. They also say it is water and moistureproof and therefore prevents rust and decay of the fenders.

¶ A home in Winnetka, Ill., uses Corrugated Asbestos-Cement for side walls of its first story, with wooden boards used on the second story for contrast. A decorative fence of Corrugated asbestos-cement encloses the surrounding lawn. The combination results in a very attractive appearance judging from the photograph we have seen.

¶ According to a Montreal newspaper, the light fleet carrier "Magnificent" of the Royal Canadian Navy, is now being overhauled in Belfast, Ireland, and will have her hull lined with asbestos material of some sort to make her comfortable in Arctic waters.

• • • —

We are here to add what we can to, not to get what we can from, Life.—Sir William Osler.



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MARKET CONDITIONS

GENERAL BUSINESS

"Whether business is heading into a broad recession is still the big question mark overhanging the country" says *Business Action* (Chamber of Commerce Publication) of May 23rd. "A gradual readjustment of business from war to peacetime conditions has been going on for months. The postwar boom plainly has lost momentum. Buyers are taking control of the markets as goods become more plentiful. Spring building gains have been less than seasonal in many places. A new decline in the stock market registers the tendency to move more cautiously. Yet the overall business picture looks good. Employment holds around peak levels. Tax receipts are ahead of expectations. National income has set new records. Exports have risen to an extraordinary high level for peacetime . . . . The answer to the question of a business recession seems to depend largely on what happens in the heavy industries." And so the argument goes on.

In the meantime, the question of tax cutting, labor legislation and other factors all have a bearing. Inflation has halted to some small extent, and there is little doubt but that price cuts, despite high costs, will be made in many lines as the year goes on, and buyer resistance develops.

ASBESTOS - RAW MATERIAL

There is not much change in the raw fibre market conditions from recent months. Demand remains steady, with little inclination for buyers to hold shipments. Where possible reasonable inventories are being built up. Most manufacturers, however, report shortage of asbestos fibres.

ASBESTOS - MANUFACTURED GOODS

Textiles. A reasonably high demand continues to exist for all types of Asbestos Textiles, particularly for Tapes. Some manufacturers report a definite leveling out in some textile lines, but the industry is still handicapped by shortage of raw materials, particularly of asbestos crudes. For this and other reasons it has been impossible

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to increase production to meet the demand and therefore a substantial backlog of unfilled orders continues. Prices are firm; deliveries range from five to six weeks in most of the lines.

Brake Lining. Total sales are still in excess of the same period last year but demand is lessening indicating either heavy stocks or an overtaxed credit situation. Buyers are also apparently marking time watching general business conditions, particularly as to price decreases. This is believed to be a temporary phase.

During April 1947 the total sales of Brake Linings and Clutch Facings, while recording a substantial increase over last April, were only slightly higher than those for March 1947. Sales for domestic consumption, during April, were lower than those for April 1945, but higher than the volume for April 1946. Export sales were considerably higher than those for the same month last year and higher than those for March 1947.

When the total for the first four months of 1947 is compared with that for the same period last year, there is a considerable increase for the current period. Domestic consumption sales are higher than those for any similar period in the previous ten years.

Asbestos Paper. Shortage of raw materials is still holding production capacity to an extremely low level; demand is decreasing seasonally. One manufacturer reports demand and production about equal. Another remarks that much Asbestos Paper is going into special items at present rather than thru the regular insulation channels.

Asbestos Millboard. Shipments are reported by one of our correspondents as running three to four weeks behind. Restriction of asbestos fibre is continuing to limit production with no great hope of any increase in raw material supply in sight.

Insulation. High Pressure. There is still a backlog of orders in this commodity that absorbs full production. New construction and maintenance are sufficiently active to keep business at full production for the next quarter, according to one report. Another manufacturer tells us that cancellations have appeared because of the postpone-

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PIPE COVERING

AIRCELL

WOOLFELT

ANTI-SWEAT

FROSTPROOF

SERVICE INTEGRITY QUALITY

ment of large industrial projects. "Unless" says this reporter "there is a definite up-swing in industrial construction in the next few months, the backlog of orders may be completely diminished, with manufacturers carrying fair stocks of materials for immediate shipment." Some price fluctuations are reported on contract work but generally speaking, prices are firm.

Insulation. Low Pressure. Demand has slackened somewhat in this market, partly seasonal, and also because of lack of heating equipment and curtailment of building. Jobber business is reported as slow. Prices are still firm and no pressure toward reduction has been noted.

Asbestos-Cement Products. There is little change in the situation on asbestos-cement products from previous months. The demand continues to be substantially in excess of production, which, in turn, is more severely limited than ever by the shortage of suitable grades of asbestos fibre. And this situation will probably continue for some time to come.

The above comments have been made by executives in close touch with the various markets. Comments are welcomed from all readers.

. . . —

Six proposals for federal budget slashing have been placed before the Senate appropriations sub-committee by Fred E. Schluter, President of the Thermoid Company. Mr. Schluter appeared before the budget study committee as spokesman for the National Association of State Chambers of Commerce, thus being representative of more than 35,000 companies, "mostly small business", employing more than 7,000,000 people.

. . . —

The American Society for Testing Materials will hold its Fiftieth Annual Meeting in Atlantic City the week of June 16th. Nominations for officers for the coming year have been announced. T. A. Boyd, Head Fuel Department, Research Laboratory Division, General Motors Corporation, Detroit, has been named for President.

Announcing

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Inquiries Invited from All Countries

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(South African)
(Bolivian)
CANADIAN
CYPRUS
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We have installed the most modern Asbestos Preparation Plant in America. We are in position to supply any of above asbestos fibres suited to your particular use.

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High strength obtained using our Blue Asbestos in Asbestos cement pipes and corrugated sheets.

•

ASBESTOS INTERNATIONAL CORPORATION

H. S. STEVENSON, ***President***
451 Communipaw Ave. Jersey City, N. J.

Canada

(Department of Mines, Province of Quebec)

Tons — 2000 lbs.

March 1947	57,157 tons
March 1946	36,305 tons

By Grades (1st Quarter)

	1st Qr. 1947 Tons (2000 lbs.)	1st Qr. 1946 Tons (2000 lbs.)
Crude	242	102
Fibres	50,360	44,639
Shorts	92,821	57,689
	143,423	102,430

Union of South Africa

(U. S. Mineral Trade Notes)

Tons — 2000 lbs.

	3rd Qr. (July to October) 1946				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	2,186	190	£2,072	3,137	£ 62,612
Chrysotile	399	327	7,463	219	14,351
Transvaal Blue	262	44	1,103	488	17,595
Cape Blue	1,920	77	1,582	2,075	68,477
Anthophyllite	.....	.....	.....	.....	.....
	4,767	638	£12,220	5,919	£163,035

Rhodesia

(Published by Rhodesia Chamber of Mines)

Production for February 1947—4,408.17 tons (2000 lbs.) valued at £145,102.

• • • —

From Foreign Commerce Weekly (published by the U. S. Department of Commerce) we learn that duty has been temporarily suspended on asbestos-cement manufactures imported into the Union of South Africa. On some classes of asbestos-cement goods the duty was as high as 25% ad valorem, on others 15% ad valorem.

HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

IMPORTS AND EXPORTS

Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries	February 1947 Tons (2240 lbs.)
From Canada	29,773
S. Rhodesia	586
Union of South Africa	1,817
Italy	1
	32,177
Value	*$1,836,706*
By Grades:	
Crude No. 1 (Chrys) Canada	2
Crude No. 1 (Chrys) S. Rhodesia	98
Crude No. 1 (Chrys) U. of S. Africa	56
Crude No. 2 (Chrys) Canada	11
Crude No. 2 (Chrys) S. Rhodesia	461
Crude No. 2 (Chrys) U. of S. Africa	134
Crude—Blue—U. of S. Africa	716
Crude—Amosite—U. of S. Africa	911
Textile Fibres (Chrys) Canada	941
Textile Fibres (Chrys) S. Rhodesia	27
Textile Fibres (Chrys) Italy	1
Shingle Fibre (Chrys) Canada	4,442
Paper Fibre (Chrys) Canada	3,704
Other Grades (Chrys) Canada	20,673
	32,177

Manufactured Asbestos Goods

	February 1947 Quantity (Lbs.)	Value
Asbestos Packing Fabric		
United Kingdom	1,765	$1,601
Other Countries	6	3
Asbestos Woven Fabrics		
United Kingdom	3,300	1,394
Asbestos Cement Products (Impreg.)		
Canada	76,500	2,880
Asbestos Cement Products (Not Impreg.)		
Various Countries	280	8
	81,851	$5,886

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LONDON, N. 22, England.

CHICAGO 4, ILL. .....GRANT WILSON, INC.
141 West Jackson Boulevard

NEW YORK, N. Y. .....CONNELL ASBESTOS MFG. CO.
Bldg. 1, Atlas Terminal
Glendale 27, L. I.

SAN FRANCISCO, CALIF. .....LIPPINCOTT CO., INC.
461 Market Street

Exports from U. S. A.

(Figures by Bureau of Census

Unmanufactured Asbestos

	February 1947 Tons (2240 lbs.)	Value
To Venezuela	9	$ 625
Guatamala	62	9,293
Mexico	7	3,600
United Kingdom	1	500
Other Countries	15	1,535
	94	$15,553

Manufactured Asbestos Goods:

		February 1947 Quantity	Value
Asbestos Paper, Mlbd. & Rlbd.	Lbs.	95,568	$ 10,594
Asbestos Pipe Covg. & Cement	Lbs.	426,966	31,133
Asbestos Textiles & Yarn	Lbs.	28,702	22,330
Asbestos Packing	Lbs.	377,158	186,652
Asbestos Brake Lng. (Mld.&S-Mld.)	Lbs.	232,905	193,976
Asbestos Brake Lng. (Woven)	L. Ft.	62,824	40,039
Asbestos Clutch Fcgs. (Mld.&S-Mld.)	No.	79,881	31,276
Asbestos Clutch Fcgs. (Woven)	No.	29,546	15,557
Asbestos Brake Blks. (Mld.&S-Mld.)	Lbs.	36,187	28,156
Asbestos Brake Blks. (Woven)	Lbs.	1,634	1,362
Asbestos Sheets	Lbs.	724,930	38,241
Asbestos Roofing	Sqs.	10,412	66,363
Other Asbestos Manufactures	Lbs.	.....	87,837
			$753,516

AUTOMOBILE SALES [1]

Passenger Car Factory Sales	314,372
Motor Trucks	106,760
Motor Coaches	1,750
	422,782

The above figures cover the United States only. Canadian sales totalled 26,009, which included 4,270 imported from the U. S. A.

[1]Figures supplied by Automobile Manufacturers Association, New Center Building, Detroit, Mich.

• • • —

Every time a man stops work, he throws that much extra burden on others.—Henry Ford.

ASBESTOS-CEMENT ASSOCIATES

INCORPORATED

CORIELL BUILDING MILLINGTON, N. J.

ENGINEERING SERVICE
TO THE ASBESTOS - CEMENT INDUSTRY

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NEWS OF THE INDUSTRY

BIRTHDAYS

E. B. Poulin, Secretary-Treasurer, Asbestonos Corp., Ltd., St. Lambert, Montreal, P. Q., Canada, June 20.

W. H. Dunn, Secretary, Raybestos-Manhattan, Inc., Passaic, N. J., June 22.

Harold W. Donnelly, Asst. Sales Manager, Norristown Magnesia & Asbestos Co., Norristown, Pa., June 22.

C. A. Schell, Vice President, Thermoid Co., Trenton, N. J., June 22.

Walter G. Cowan, Vice President and General Manager, The Ruberoid Co., New York City, June 26.

A. H. Bennett, President, A. H. Bennett Co., Minneapolis, Minn., June 27.

H. A. King, Manager, Industrial Dept., The Ruberoid Co., New York City, June 28.

L. B. Palmer-Ball, President, Palmer Asbestos Co., Louisville, Ky., June 29.

Frank R. Schueler, Vice President and Secretary, Asbestos, Asphalt & Insulation Mfg. Co., Chicago, Ill., June 30.

Vincent W. Hemphill, Secretary, Standard Asbestos Mfg. Co., Chicago 7, Ill., July 1.

George H. Rhinehart, Vice President, Asbestos Limited, Inc., Millington, N. J., July 1.

S. E. Breuleux, Assistant Treasurer, The Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, July 6.

A. V. Winterer, President, Asbestos Products Corp., St. Paul, Minn., July 6.

Chas. S. Wood, President, Chas. S. Wood & Co., Newark, N. J., July 6.

O. C. Smith, President, Bell Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada, July 7th.

G. K. McKenzie, Secretary, The Flintkote Co., New York City, July 7.

Capt. W. A. Janitch, R. E., Representative for Asbestos Corporation Limited, London, N. W., 3, England, July 10.

A. M. Ehret, Jr., President, Ehret Magnesia Mfg. Co., Valley Forge, Pa., July 11.

H. W. Prentis, Jr., President, Armstrong Cork Co., Lancaster, Pa., July 11.

Thomas L. Gatke, President, Gatke Corp., 228 N. LaSalle St., Chicago, Ill., July 16.

Arthur R. Hahn, Engineer, Asbestos-Cement Associates, Inc., Millington, N. J., July 16.

To all these gentlemen congratulations on the occasion of their birthdays.

BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
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PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

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Morley House, 28-30 Holborn Viaduct, London, E.C.1.
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A. C. P. A. CELEBRATES TENTH ANNIVERSARY

A decade of construction activity in behalf of the Industry was commemorated on May 23rd when the Asbestos Cement Products Association held its tenth anniversary at the Seaview Country Club, Absecon, N. J. The occasion brought together leading executives of the seven manufacturing companies comprising the trade group.

Declaring that "our objectives in the past have been met; our objectives in the future will be met", Stuart H. Ralph, the Association's president, reviewed the accomplishments of the ten years in encouraging mutual understanding and co-operation and in promoting the welfare and development of the industry.

"Looking forward", he said, "we can predict a continuance of the splendid co-operation which is so distinguishing a characteristic of this Association as we strive to improve our products, our distribution and our planning to the end that the public may be assured better products and better service."

Mr. Ralph, a vice-president and director of the Flintkote Company and a veteran of thirty years in the building materials field, was re-elected president of the Association, E. W. (Pat) Smith of the Philip Carey Manufacturing Company again was named vice-president and Donald Tulloch, Jr., was re-elected secretary and treasurer. Mr. Ralph, S. P. Moffit of The Ruberoid Company, and L. M. Cassidy of Johns-Manville Corporation, make up the new executive committee.

Directors chosen for the coming year, in addition to the officers and executive committee, include Russell R. Galloway, Asbestos Limited; C. F. Favrot, Asbestone Corporation; and R. J. Tobin, the Tilo Company.

Special tributes were paid to L. R. Hoff, one of the founders of the Association, and Mr. Moffit, who served as president for five consecutive terms.

An attractively printed program recounted the formation of the Association on May 14, 1937, and outlined how its objectives are achieved thru special committees and standing committees on planning, manufacturing, publicity, sales engineering and technical matters.

A highlight of the meeting was a talk by Rear Admiral Lewis Barton Combs of the Civil Engineer Corps, U. S. Navy, given at the anniversary luncheon which followed the regular session. Admiral Combs told of the accomplishments of the Sea Bees during the recent war and emphasized the importance of the United States maintaining adequate naval bases for its future protection.

Preceding the regular meeting, on May 22, committee meetings were held. Chairman of these groups are: Planning, W. R. Wilkinson, Johns-Manville; Sales Engineering, Miles V. Engelbach, Ruberoid; Technical, Hubert E. Lloyd, Ruberoid; Manu-

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ASBESTOS CEMENT PRODUCTS
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WANTED—TO PURCHASE

Asbestos Pipe Covering Winder required. New or used. State price, capacity, condition. Address Box 11-A-M, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

METAL WINDOWS

Steel — Aluminum — Bronze

Large Stock — ALL TYPES

STEEL SASH SALES & SERVICE
Weehawken, New Jersey

facturing, A. R. Fisher, Johns-Manville; and Publicity, M. W. Searles, Flintkote.

. . . —

DR. C. F. RASSWEILER, Vice President for Research and Development, Johns-Manville Corporation, has been chosen Chairman-elect of the American Chemical Society, New York Section. He will take office July 1st.

Dr. Rassweiler made the commencement address at the University of Denver on June 7th.

THERMOID CO. Stockholders recently approved increases in the authorized preferred stock from 55,000 to 120,000 shares and in the authorized common stock from 975,000 to 1,500,000 shares. The meeting also approved a resolution authorizing extension to April 16, 1951, of options to the management and employes to purchase 24,250 shares of common at $8 a share.

THE Ric-wiL COMPANY has recently issued a four page folder of Engineering Data and Specifications for Tile and Cast Iron Conduit Systems. The folder is a practical aid to architects and engineers; it shows trench dimensions and pipe locations recommended for each size and type of conduit. Tables give capacities of various conduit types and sizes. Copies of the folder (ask for Form 4704) may be obtained by writing the Ric-wiL Company, Cleveland, Ohio.

RAYBESTOS-MANHATTAN, INC., recently added fifty-nine 25-year employees to its roster of Manhattan Pioneers.

CANADIAN JOHNS-MANVILLE CO. Twenty-eight veteran employees were inducted into the J-M Quarter Century Club on May 27th. At the same time special tribute was paid to J. Napoleon Plourde, who has completed 50 years of service with Johns-Manville.

J. ERIC MORRISON has been appointed Manager of the Canadian Johns-Manville factory at Asbestos, Que. Until his recent appointment Mr. Morrison was Quality Control Department Supervisor at the Asbestos Plant.

Mr. Morrison has been associated with Johns-Manville since 1928, his first job being Chief Chemist for both the factory and the Asbestos mill. A native of Amherst, N. S., Mr. Morrison in 1923 received his diploma in Engineering from Dalhousie University; in 1925 his B. Sc. in Metallurgical Engineering, McGill University; and his Masters Degree in Metallurgy in 1926 (McGill).

WILLIAM H. WEISS has been appointed Fleet Sales Engineer for the Automotive Replacement Division of Thermoid Company. Mr. Weiss was formerly affiliated with the S. K. Wellman Company at Cleveland, as Sales Engineer, Branch Manager, District and Original Equipment representative. His headquarters are at the firm's main offices at Trenton.

ASBESTOS SUPPLY CO., R. B. "Mike" Moran has been appointed manager of Asbestos Supply Company of Spokane, effective June 1st. J. B. Lyall will continue as manager of Northwest Insulations Company.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date issued, name of patentee and name of invention.

Roof Clip. No. 2,418,076. Granted on March 25, 1947 to Philip W. Kridler, Detroit, Mich. Application October 4, 1944. Serial No. 557,097. A roofing clip generally of **U** shape with the branches of the **U** convergent in the direction of their free ends, one of said branches being adapted to underlay one shingle, the other of said branches being adapted to overlay a second shingle, said clip being made of spring steel whereby it maintains said shingles in continuous pressure contact.

Clutch Facing. No. 2,418,099. Granted on March 25, 1947, to Walter P. Schmitter and Edward J. Wellauer, Wauwatosa, Wis., assignors to the Falk Corporation, Milwaukee, Wis. Application March 15, 1945. Serial No. 582,908.

In a clutch or the like energized by an inflatable annular gland, a facing for said gland comprising circular series of friction shoes surface bonded to a face of said gland and a series of protective shields surface bonded to said gland face between successive shoes, each of said shields being disposed out of the plane of the friction faces of adjacent shoes and bridging the gap therebetween.

Insulated Pipe. No. 2,419,278. Granted on April 22, 1947 to James O. Motsenbocker, Jr., Phillips, Texas. Assignor to Phillips Petroleum Co. Application June 30, 1945. Serial No. 602,431.

An insulated pipe comprising in combination an outer pipe, an inner liner tube, heat insulating material between said inner liner and said outer pipe, and end plates connecting the ends of said liner and said outer pipe, said end plates comprising annular plates having concentric corrugations therein whereby differences in expansion between said liner and said outer pipe are taken up by movement of said end plate corrugations.

Roofing or Surfacing Material. No. 2,420,421. Granted on May 13, 1947 to Sidney Lanier Eason, Charleston, S. C. Continuation of Application, Serial No. 449,747, July 4, 1942. This application September 14, 1944, Serial No. 554,076.

Roofing or surfacing comprising overlapping sheets of material, strips of material different from the sheets themselves applied to the exposed faces of said sheets, said strips being

characterized in that they possess adhesive-cohesive affinity for similar strips or treated surfaces but will not adhere to dissimilar surfaces, etc. Further description upon request.

Friction Composition. No. 2,420,475. Granted on May 13, 1947 to Herbert H. Greger and Southwick W. Briggs, Washington, D. C. Application January 1, 1942. Serial No. 426,358.

An artificially integrated and shaped friction material comprised of an insoluble and non-porous substance comprising, by weight, asbestos from about 30-80% and the reaction product of from about 20-50% of a mixture of aluminum sulphate and a calcium phosphate in molecular proportions of from about 10-30% barium carbonate.

BOOK LIST

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy, discount in quantities of 50 or more.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy, discount in quantities of 50 or more.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 10c per copy.

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. 30c.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 35c per copy postpaid.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each.

Asbestos: A Magic Mineral, by Lilian Holmes Strack. Written especially for school children but every Asbestos Library should have a copy. $1.00 per copy. (This book has been out of print but is now again obtainable.)

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa.

AFTERTHOUGHTS

¶ Armstrong Cork Company announces that for the first time in five years they can make reasonably prompt delivery of their industrial insulations—Corkboard, Mineral Wool Board, Foamglas, Cork Covering and most heat insulations. Possible for two reasons: shortages of raw materials, government restrictions and wartime orders have mostly been eliminated and they have completed additions to their manufacturing capacity which makes more material available.

¶ A mechanic coming into the office of "ASBESTOS" to service some of the business machines was interested in the large piece of serpentine rock showing small veins of asbestos. "Is asbestos made out of this rock?" he inquired. Well, that is one way of putting it!

¶ Johns-Manville say that their Canadian asbestos mine has a hundred years' supply of asbestos at the present rate of production. Its production at present is 300,000 tons annually—about half the world output.

¶ Air Force Day will be observed in the United States on August 1st. The theme of the occasion is *Air Power is Peace Power.*

¶ The story on page 20 describes an instance where asbestos protects against frost. How many things can you think of against which asbestos protects us? Send in your list; we will combine with others and with our own. We should have quite an imposing list when finished.

¶ Once in a while someone sends us their birthday date asking that they be placed on our list. We appreciate this as it is easy to overlook asking for the dates. Also it means that they like to know when their friends in the Industry have birthdays, and appreciate our effort to keep them posted.

¶ July begins our new volume—No. 29. "ASBESTOS" will have a brand new cover page—we hope you will like it.

CURRENT RANGE OF PRICE

As of June 10, 1947

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine	
Group No. 1 (Crude No. 1)		$800.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry	$302.50 to	545.00
Group No. 3 (Spinning or Textile Fibre)	170.50 to	315.00
Group No. 4 (Shingle Fibre)	82.50 to	113.00
Group No. 5 (Paper Fibre)	58.00 to	65.00
Group No. 6 (Waste, Stucco or Plaster)		43.00
Group No. 7 (Refuse or Shorts)	19.50 to	37.50

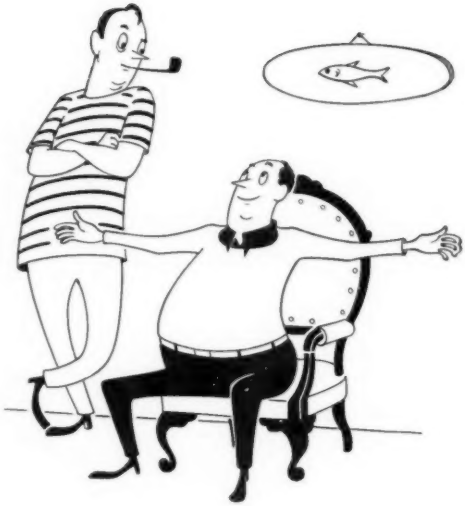
Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.	
Group No. 4 (Shingle Fibre)	$82.50 to	$91.50
Group No. 5 (Paper Fibre)	58.00 to	65.00
Group No. 6 (Waste, Stucco or Plaster)		43.00
Group No. 7 (Refuse or Shorts)	20.50 to	38.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness).

		May 1947		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	38⅜	44¾	40¼
Armstrong Cork Co. (Pfd.)	np	102	105⅝	104¾
Asbestos Corp. (Com.)	np	26	28	27
Asbestos Mfg. Co. (Com.)	1	1⅞	2⅜	2⅛
Celotex (Com.)	np	19⅞	25½	23⅛
Celotex (Pfd.)	20	20¼	21¼	20¼
Certainteed (Com.)	1	11⅝	15⅛	14⅛
Flintkote (Com.)	np	24	29	27⅞
Flintkote (Pfd.)	np	104	107¼	106
Johns-Manville (Com.)	np	110	120½	112
Johns-Manville (Pfd.)	100	110	116	114¾
Raybestos-Manhattan (Com.)	np	28¾	33	31
Ruberoid (Com.)	np	42½	50	45¾
Thermoid (Com.)	1	9⅝	12	10⅞
Thermoid (Pfd.)	50	49⅞	55	53¾
Union Asb. & Rub. (Com.)	5	9⅛	11½	10⅜
U. S. Gypsum (Com.)	20	86	99	93½
U. S. Gypsum (Pfd.)	100	192	196½	195¾
U. S. Rubber (Com.)	10	41¼	48	43⅛
U. S. Rubber (Pfd.)	100	144	150	148½



PRIZE YARN

When it comes to spinning yarns—out of thin air or out of asbestos—the boys at R/M are hard to beat. In asbestos yarns, for example, R/M supplies a range of sizes far beyond the general practice of the industry. Yarns like 35-cut and 50-cut are all in the day's work at R/M. For a good yarn—and for one with a perfect ending—specify R/M every time.

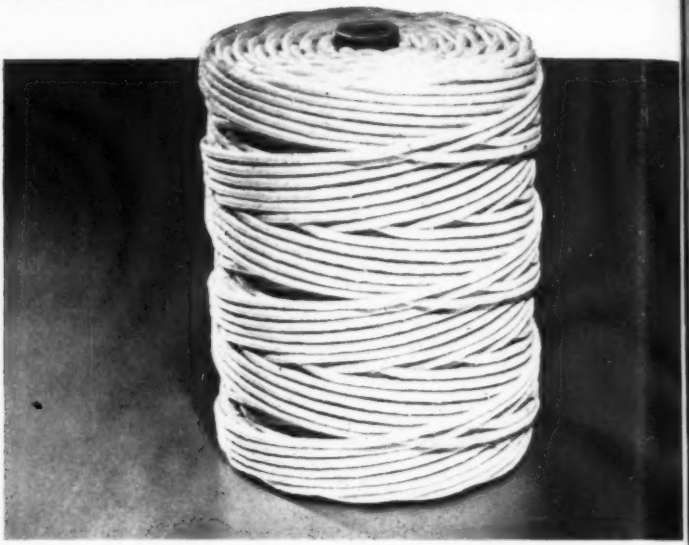
R/M

RAYBESTOS - MANHATTAN, INC.

ASBESTOS TEXTILE & PACKING DIVISION

MANHEIM, PA. NORTH CHARLESTON, S. C.

SOUTHERN ASBESTOS



CORD

Uniform in diameter, smooth, and with high tensile strength, Southern Asbestos Cord meets the demands of all industries such as electrical, plain and metallic hose, packing, glass, etc. It is made in various constructions according to service needs.

Southern also produces Asbestos Thread designed to individual needs. Write for Cord and Thread Folder No. 1002.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

THREAD • CLOTH • ROVING • TUBING • CARDED FIBRE
LISTING TAPE • YARNS • ROPE • WICK • OIL BURNER WICK

Specialists in developing and manufacturing Asbestos Textile Products for over 25 years, Southern Asbestos Company has the technical and production facilities to help you develop asbestos fibres and textiles for your particular service. Just say the word.

SOUTHERN ASBESTOS COMPANY • CHARLOTTE 1, N.